

FOUNDATION EQUIPMENT

THE RANGE _____ _____ OF OUR PRODUCTS _____



/01

THE _____ _ HYDRAULIC PILING RIGS _



- LONG LIFE EQUIPMENT
- EFFICIENCY AND CONTROL
- RELIABILITY AND PERFORMANCE
- VERSATILITY
- SAFETY

Casagrande is a world leading supplier of foundation equipment. The piling rigs are designed to satisfy most of the necessities to execute modern foundation technologies. Supplying the right equipment and services to enable the contractor to achieve the best results on site is our objective. The main design specifications of our high quality piling rigs consider safety standards, reliability, performance, duration and resale value.



EQUIPMENT RANGE

XP-2

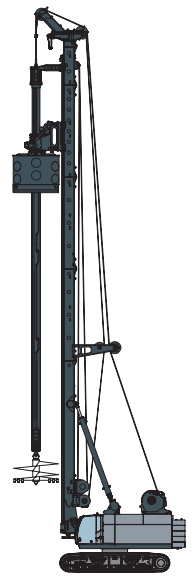
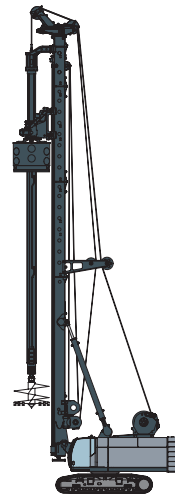
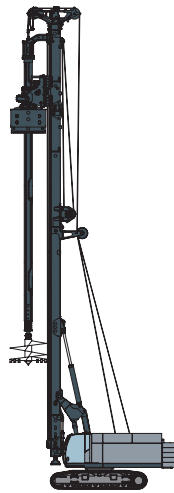
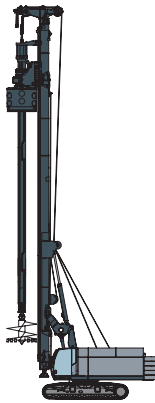
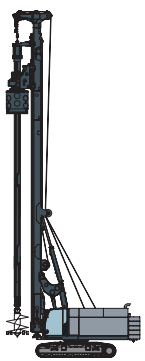
Casagrande provides a wide range of **high-performance equipment**, XP-2 advanced technology and operational competitiveness. From 30 T to 170 T for all kinds of foundation engineering jobs.

Bored Piles



Piling Rigs XP-2 series	B125	B175	B200	B240	B250
Max diameter - mm	1500	1500	1800	1800	2100
Max diam. under mast - mm	3000	3000	3100	3500	3400
Max depth - m	50	57	68	78	78
Max diameter CFA - mm	800	900	1000	1000	1200
Max depth CFA - m	23,6	28	29,7	27	31,8
Rotary head torque - kNm	135	175	210	263	263
Engine power - kW	186	209	246	283	336
Weight - t	40	44	65	69	86

The Range Of Our Products



B275	B300	B360	B400	B420	B470
2100	2300	2700	2700	3500	3500
3400	4200	4500	4500	-	-
78	89,5	99	99	101	111
1200	1200	1200	1200	1200	1500
31,8	31,8	37	37	39	41
300	300	400	467	467	467
336	400	400	450	450	450/563
92	100	122	124	144	167

THE _____ _ HYDRAULIC PILING RIGS _

XP-2





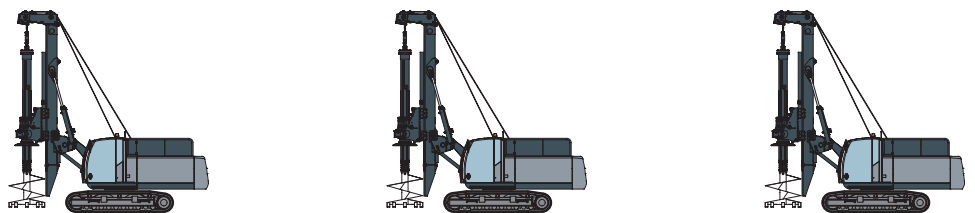
EQUIPMENT _____ _____ RANGE

Undermast



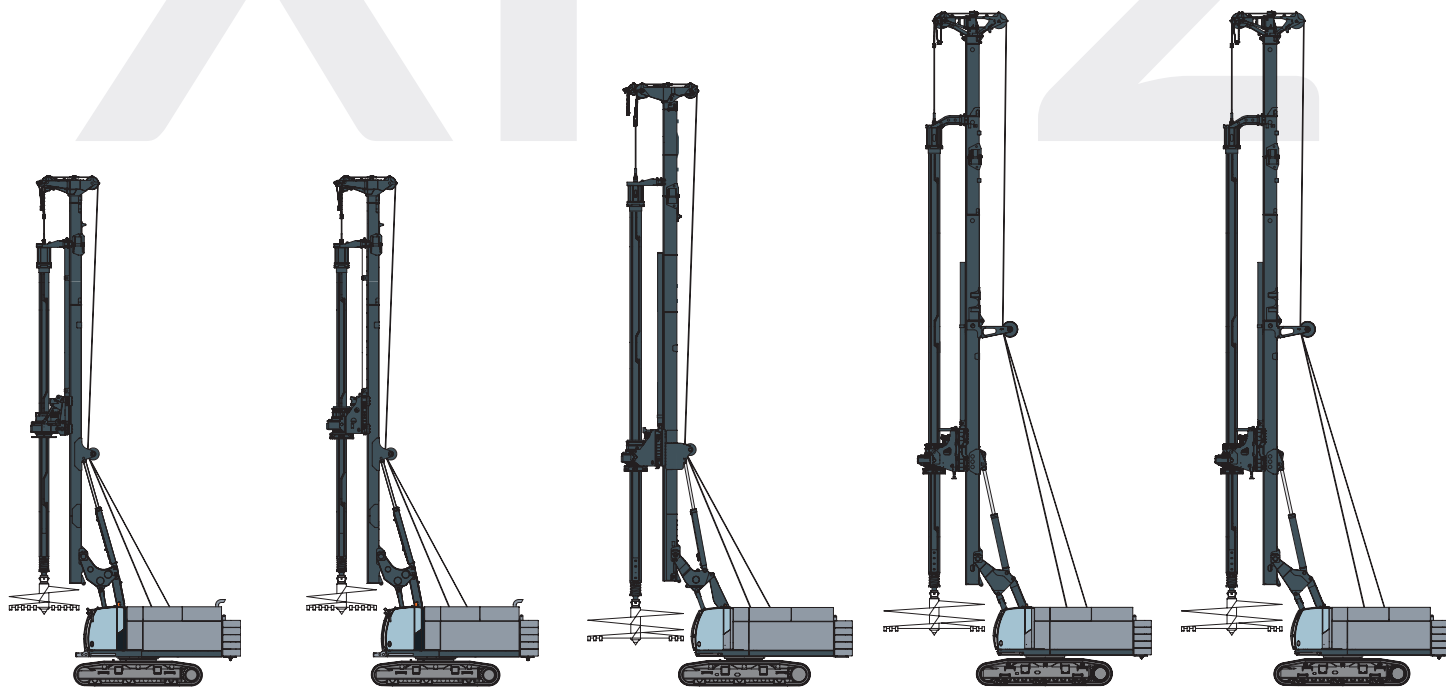
Piling Rigs XP-2 series	B125	B160	B175	B200
Max diameter - mm	3000	3000	3000	3100
Max depth - m	49	49	49	48
Stroke - mm	3800	5200	5200	6000
Kelly bars max. length - mm	11000	11000	11000	11000

Low Headroom

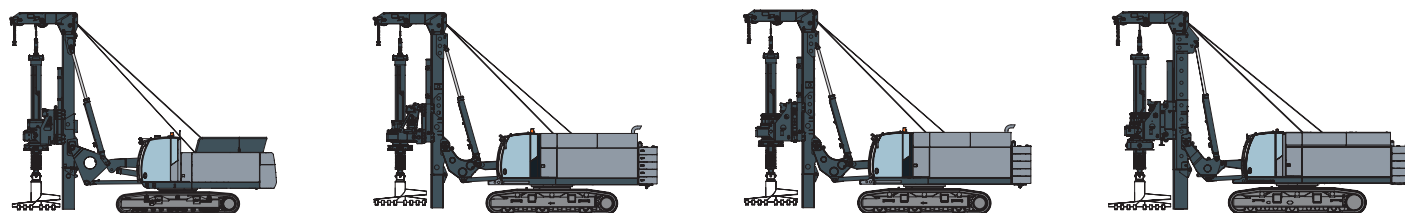


Piling Rigs XP-2 series	B125	B160	B175
Max diameter - mm	1500	1500	1500
Max depth - m	19,7	19,7	19,7
Stroke - mm	2200	2200	2200
Max height - mm	8500	8500	8500

XP-2



B250	B275	B300	B360	B400
3400	3400	4200	4500	4500
54	54	75	87	87
6500	6500	4900	4900	4900
12500	12500	16500	19000	19000



B200	B250	B275	B300
2100	2100	2100	2600
21,1	20,5	20,5	20,2
2100	2100	2100	2500
8500	8500	8500	8500

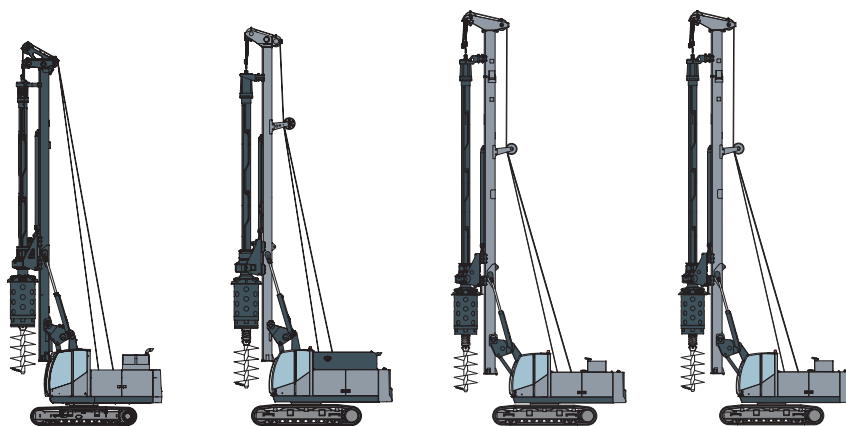
CASAGRANDE CLASSIC LINE

The Casagrande **Classic Rigs**, designed from the tradition to give the specialist contractors equipment for performing foundation techniques in the geotechnical engineering such as bored piles, continuous flight auger and eventually diaphragm wall.

A comfortable cabin and simplified interface keeps the operator efficient and ready for high productivity.



The **hydraulic circuit** and the controls of the machine are based on traditional electro-hydraulic logic elements in order to be as easy as possible. The ideal operating weight allows easy transport and fast set up.



Piling Rigs C-Series	C20	C30	C35	C40
Max diameter - mm	1200	1200	1500	1500
Max depth - m	37	42	50	50
Max diameter CFA - mm	800	800	800	800
Max depth CFA - m	16,6	20,2	23,6	23,6
Rotary head torque - kNm	100	125	135	177
Engine power - kW	142	186	172	201
Weight - t	28	35	39,7	41,8

IS



/02

**DIAPHRAGM
WALL
EQUIPMENT**



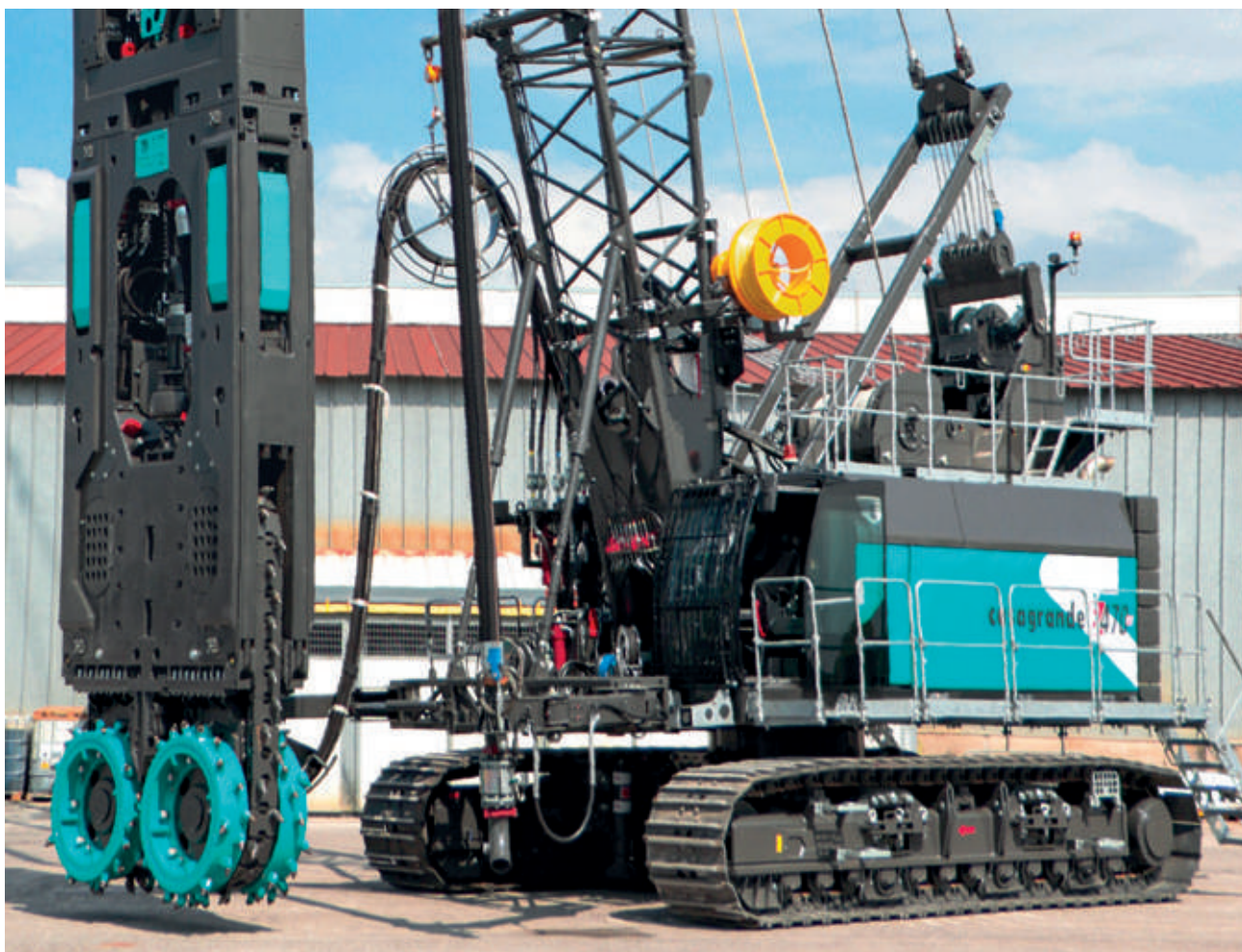
➤ **FD HYDROMILLS**

➤ **KRC KELLY GUIDED GRABS**

➤ **ROPE SUSPENDED HYDRAULIC GRABS**

Casagrande started manufacturing equipment for diaphragm walls in 1963. Over the years, it has developed a complete range of machines in order to satisfy all the contractor's requirements from kelly guided grabs to rope suspended grabs.

Whenever the difficult soil condition or high productivity and shear accuracy are required the Casagrande Hydromill is a must.



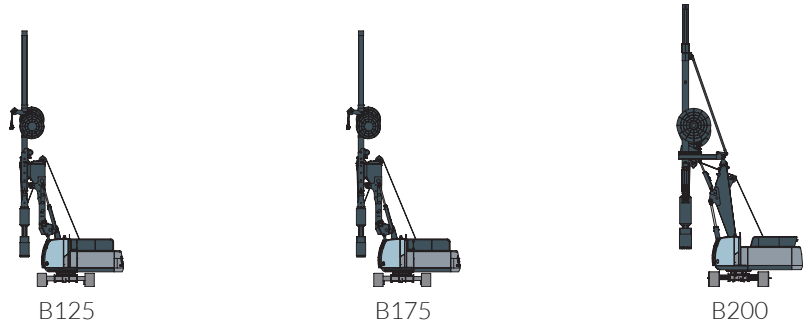
EQUIPMENT RANGE



FD hydromills

Model	FD70	FD70
Max Depth - m	50	120
Width of Trench - mm	760 ÷ 1500	760 ÷ 1500
Length of Trench - mm	2800/3150	2800/3150
Engine Power - kW	563	563
Weight - t	180	190

KRC Kelly Guided Grabs



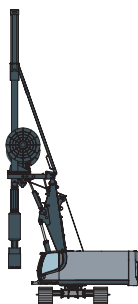
Model	KRC1	KRC1	KRC2
Max Depth - m	30	30	35
Width of Trench - mm	400 ÷ 800	400 ÷ 800	500 ÷ 1500
Length of Trench - mm	2200 ÷ 2500	2200 ÷ 2500	2200 ÷ 3000
Engine Power - kW	186	209	246
Weight - t	41	42	62

Rope Suspended Hydraulic Grabs

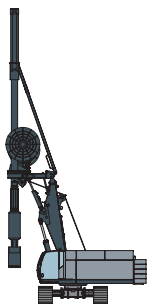


Model	KHD22	KHD25	KHD28
Max Depth - m	80	80	80
Width of Trench - mm	420 ÷ 800	600 ÷ 1500	600 ÷ 1500
Length of Trench - mm	2200 ÷ 2500	2200 ÷ 3200	2200 ÷ 3200
Engine Power - kW	246	336	400
Weight - t	~85	~90	~97

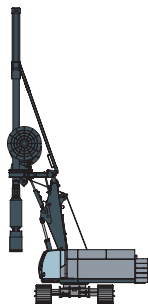
The Range Of Our Products



B250



B300



B360

KRC2HD

35

500 ÷ 1500

2200 ÷ 3000

336

78

KRC2HD

46

500 ÷ 1500

2200 ÷ 3000

400

85

KRC2HD

46

500 ÷ 1500

2200 ÷ 3000

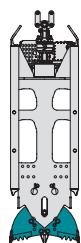
400

100

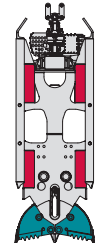


B360

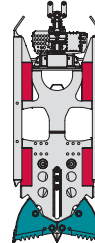
HYDRAULIC GRAB



HYDRAULIC GRAB



HYDRAULIC GRAB



MECHANICAL GRAB



KHD28

80

600 ÷ 1500

2200 ÷ 4000

400

~120

KHD22

-

420 ÷ 800

2200 ÷ 2500

-

9 ÷ 16

KHD25

-

600 ÷ 1500

2500 ÷ 3000

-

12 ÷ 23

KHD28

-

600 ÷ 1500

2800 ÷ 4000

-

16 ÷ 30

PM

-

600 ÷ 1500

2500 ÷ 3200

-

10 ÷ 20

/03

THE _____ _____ HYDRAULIC DRILLING RIGS _____



- ▶ **LONG LIFE EQUIPMENT**
- ▶ **VERSATILITY**
- ▶ **RELIABILITY AND PERFORMANCE**
- ▶ **SAFETY**

Casagrande's expertise manufacturing crawler drills provides answers to all contractor's needs in jobs such as micropiles, anchors, tie-backs, grouting and jet grouting. All the equipment can be customized as well as installed with all the latest safety systems required. Extensive accessories such as rod loaders, pumps and drilling tools can be supplied.



EQUIPMENT RANGE

Casagrande provides a wide range of **high-performance drilling rigs** equipment, advanced technology and operation competitiveness. From 6 T to 40 T satisfying all needs in geotechnical applications.



Drilling Rigs XP-2 series	C3	C3V	C3S	C4
Engine power - kW	100	100	100	100
Torque - kNm	15,2	15,2	14,8	12,2
Stroke - Single rotary head - m	3,2	3,5	3,85	4
Extraction/Crowd force - kN	50	120	100	50
Weight - t	6,5	7,7	8	8,5
Jet-grouting depth in single passage - m	✓	✓	✓	✓

The Range Of Our Products



Drilling Rigs XP-2 series	C5R	C5	C6	M9	C7
Engine power - kW	97	97	142	209	201
Torque - kNm	17	15,2	22	30	30
Stroke - Single rotary head - m	4	3,6	7,1	10	10
Extraction/Crowd force - kN	60	50	87	100	87
Weight - t	7,9+2,1	9	15	21	22
Jet-grouting depth in single passage - m	-	12	20	23	26



Drilling Rigs XP-2 series	C8	C9	C10	C12	C16
Engine power - kW	209	209	209	209	209
Torque - kNm	30	55	55	55	55
Stroke - Single rotary head - m	10	10	10	13	16
Extraction/Crowd force - kN	87	150	150	150	150
Weight - t	25	27	28	30	37
Jet-grouting depth in single passage - m	28	26	28	30,5	36



The Range Of Our Products



JET _____ ____ GROUTING EQUIPMENT _____

➤ HIGH PRESSURE PUMPS

➤ MIXING PLANT

➤ DRILL STRING



The Range Of Our Products





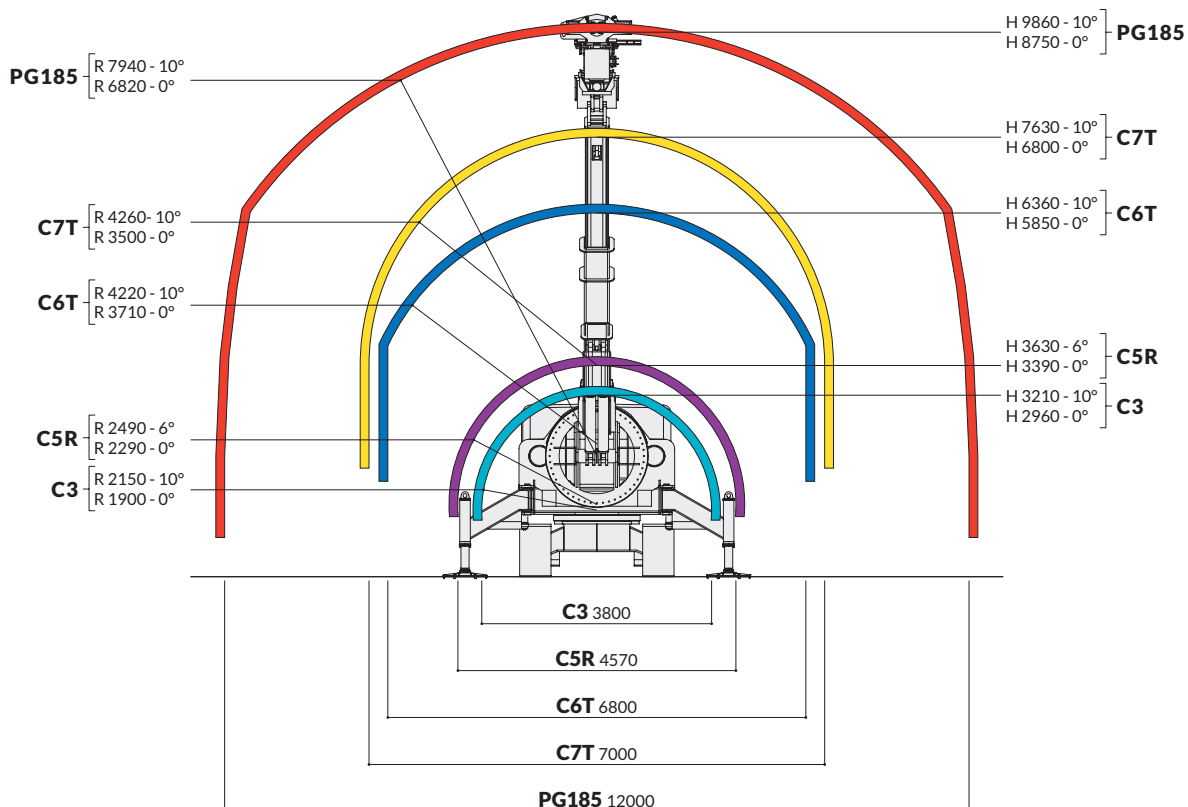
Casagrande's new range of tunnelling equipment is designed and built using the latest state-of-the-art techniques. A range of machines engineered to satisfy the needs of the most demanding contractor with emphasis on performance, reliability and economy.



The equipment are used to construct an arch around the tunnel's periphery ahead of the face.

The arch provides support in weak soil so that excavation may be carried out safely without the use of expensive temporary support systems, it also ensures that deformations are kept within acceptable limits.

TUNNELLING EQUIPMENT

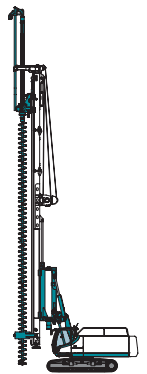
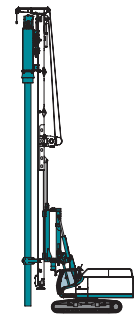
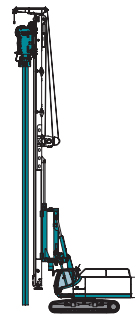
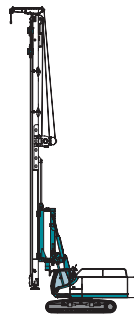


Drilling Rigs XP-2 series	C3 XP-2	C5R XP-2	C6T XP-2	C7T XP-2	PG185 XP-2
Height center of ring gears - mm	1060	1150	740 ÷ 2140	520 ÷ 3300	1920
Radius of horizontal drilling - mm	1100 ÷ 1900	1350 ÷ 2290	2600 ÷ 3170	2700 ÷ 3500	2600 ÷ 6820
Stroke single rotary head - mm	2000	2150	4000	7300	18000
Weight - kg	~ 6500	~ 10000	~ 17000	~ 24000	~ 45000

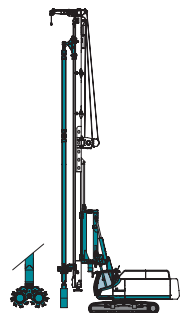
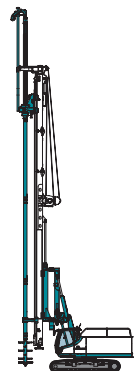
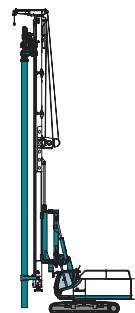
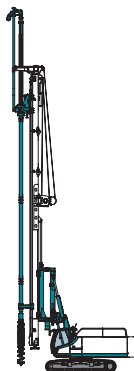
MULTI FUNCTION RIG



V16-19



Model	BASE CARRIER	VIBRATOR FOR SHEET PILES	PILE DRIVING WITH HYDRAULIC HAMMER	CFA CONTINUOUS FLIGHT AUGER
Diesel engine - kW	470	-	-	-
Max pile length - m	-	19,7	19,7	-
Max depth - m	-	-	-	25,7
Max diameter - mm	-	-	-	600
Weight - t	60	65	73	68



Model	DISPLACEMENT PILES	CASED CFA VdW	SOIL MIXING	CUTTING SOIL MIXING
Max depth - m	25,7	19,7	25,7	19
Max diameter - mm	-	500	1200	-
Trench - mm	-	-	-	1000 x 2800
Weight - t	68	68	68	72

FOUNDATION DRILLING TOOLS AND ACCESSORIES

In order to obtain the best of the innovated hydraulic installed on the machine and transfer properly to the ground, we have created a new and complete range of drilling tools and accessories.

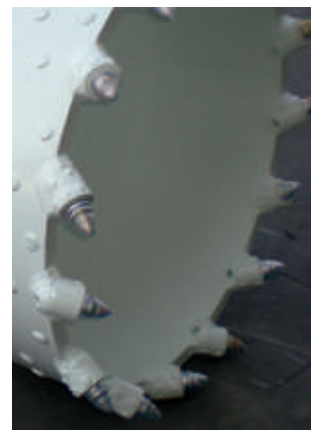
Buckets



Augers



Core Barrels



Special Tools



FDP



Tools Spare Parts





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